

PHENIX WEEKLY PLANNING



12/09/2010
Don Lynch

12/09/2010

TECHNICAL SUPPORT 2010

2010 Shutdown (Overview)

Start Date End Date

Design, Eng'g, fabrication, procurement and site preparation tasks
in support of shutdown tasks

Done

Done

Shutdown Startup Tasks

Done

Done

Gas system maintenance, repair and upgrade

In progress

12/24

PHENIX Infrastructure maintenance, repair and upgrade

In Progress

12/24

Remove RPC Prototypes

Done

Done

Remove HBD

Done

Done

Remove RXNP

Done

Done

Remove/Reinstall BBC

Done

Done

Remove Re-install MPC

In Progress

12/3

RPC3N & MuTrigger unfinished business

Done

Done

Remove current BP, install new BP

Done

Done

DC/PC maintenance and repair (mid summer)

Done

Done

Install RPC3S (including Absorbers)

Done

Done

MuTr maintenance, repair and upgrade

Done

Done

Install VTX

Done

Done



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This Week:

- Re-Install North MPC
- Complete VTX Installation
- Commission VTX cooling system
- Final prep for commissioning of VTX and RPC3S detectors
- Complete restoring services to CM and MMS
- RPC1 and PE/Pb absorber prototype installations
- Final VTX / BP / CM & MMS Survey
- Move MuID collars to IR
- Prep IR & EC for roll-in and begin roll-in
- Install cables for FoCal prototype
- Future upgrades support

Next Week

Complete EC roll-in

DC East/West maintenance and repairs

Begin End of shutdown tasks including Pink/Blue/White sheets

Final VTX Survey

Install RPC1 Prototype Electrical and gas support

Future upgrades support

TECHNICAL SUPPORT NO-0



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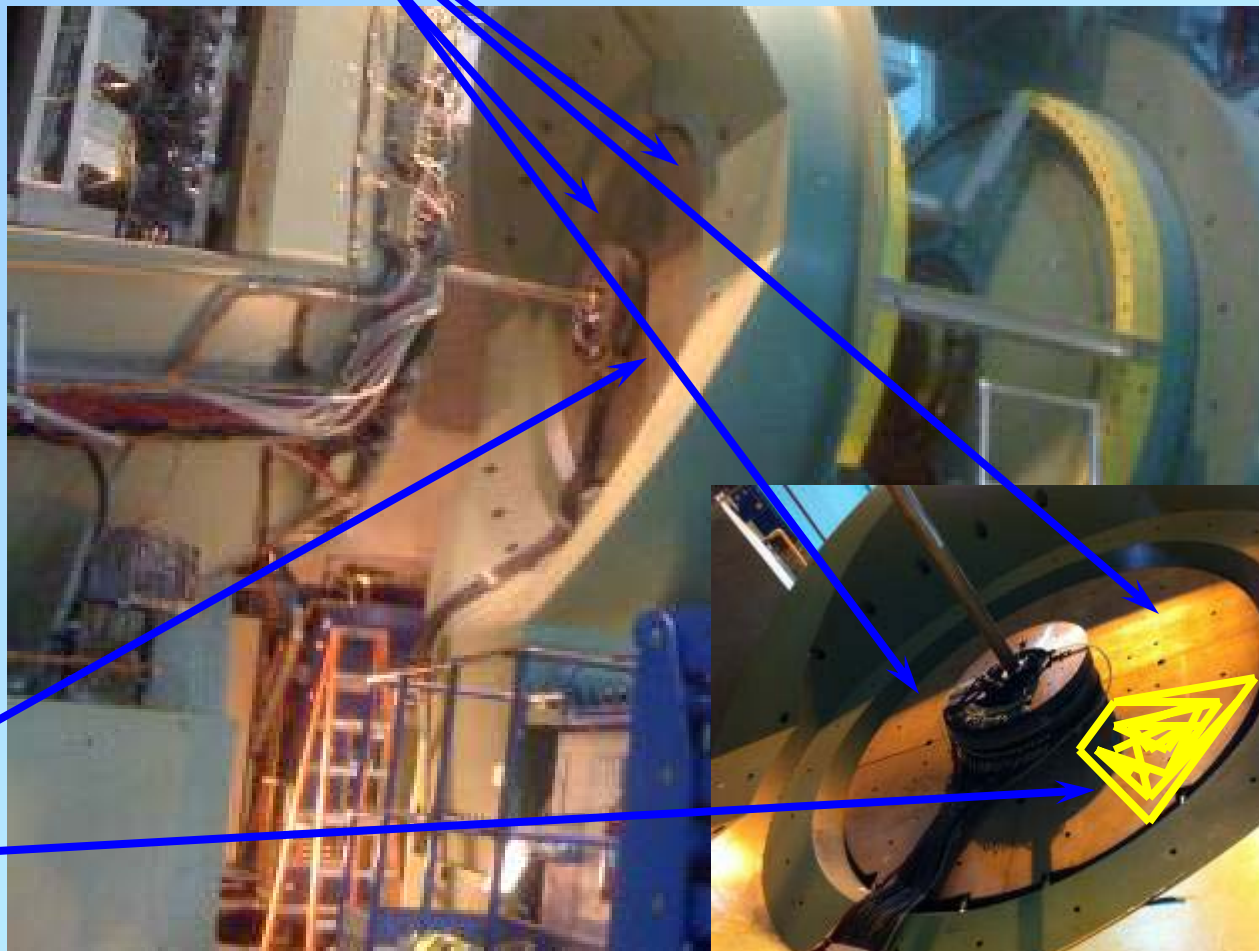


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Easy Bake II



Prototype Absorbers go here



RPC1
Prototype
Goes Here

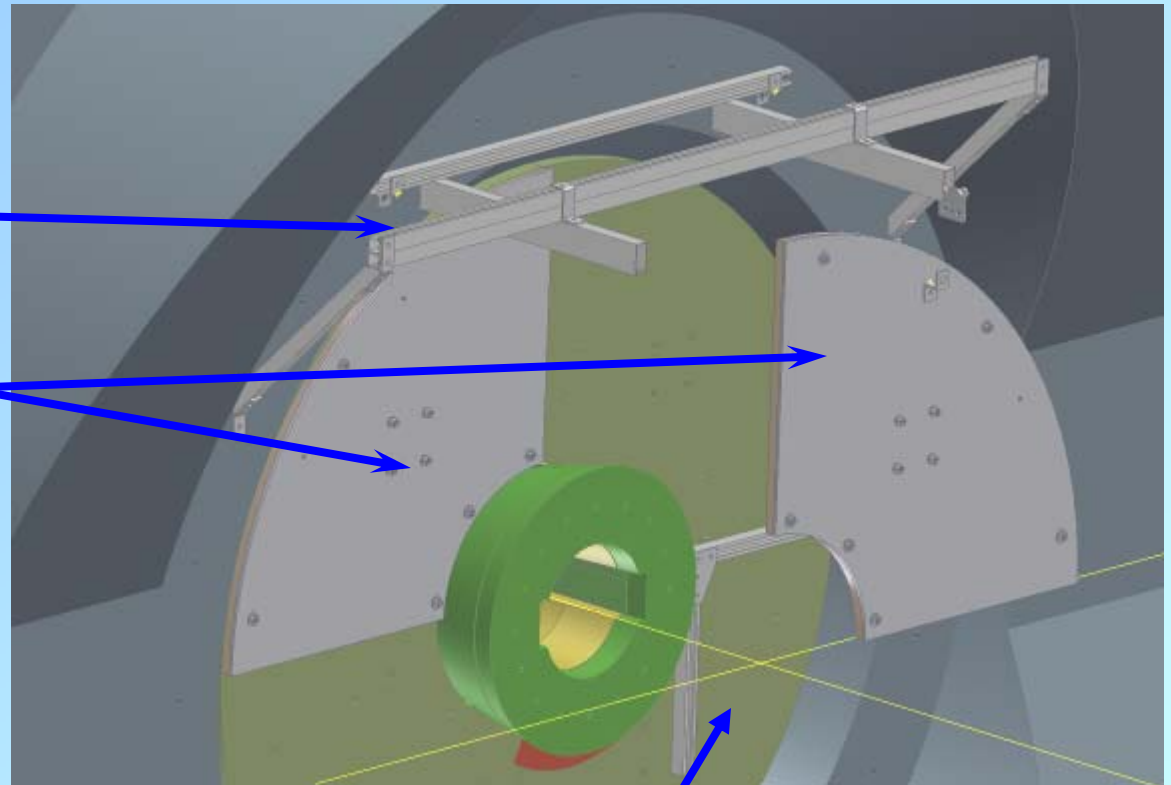


Installation scheme for Borated Poly and lead prototypes:

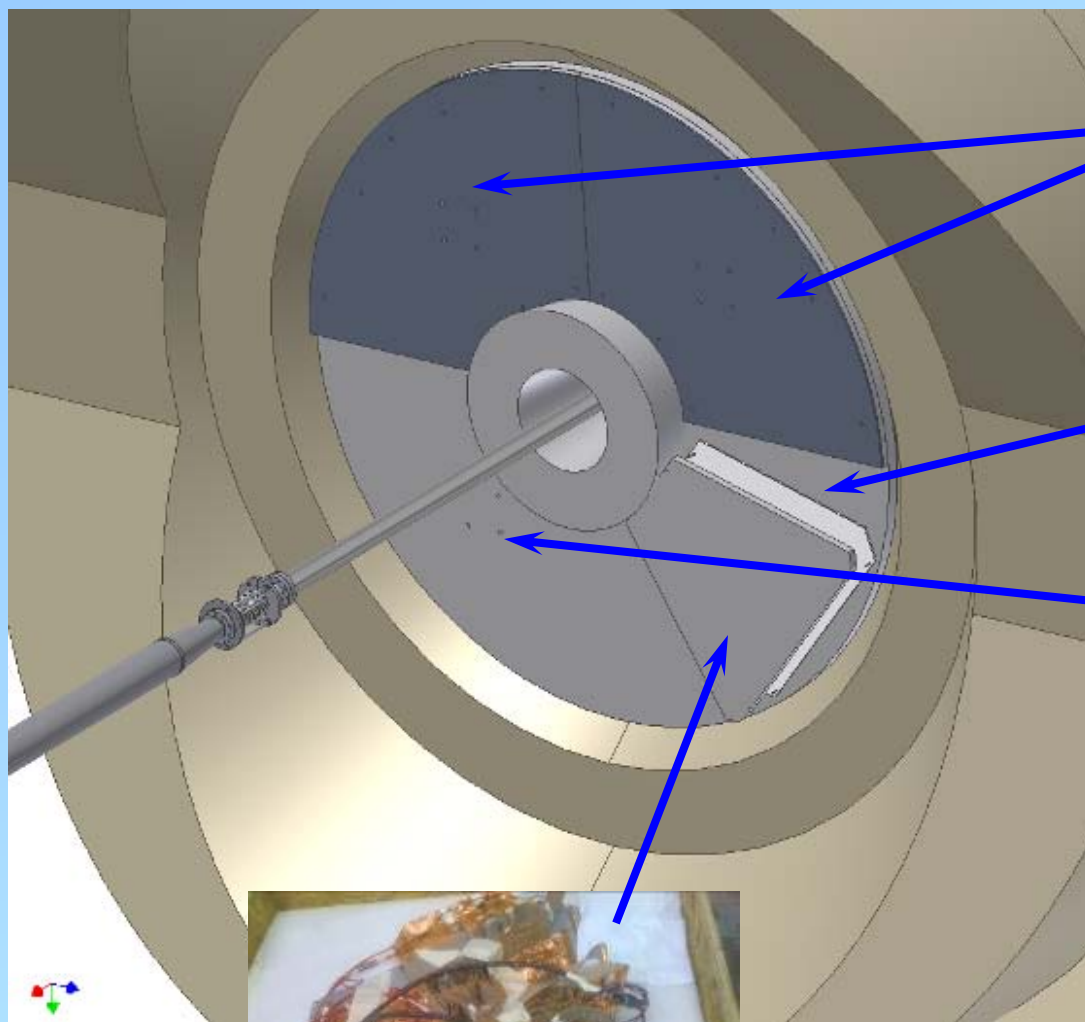
TECHNICAL SUPPORT 2010

Installation
support
structure
attached to CM

Prototype absorbers
lifted with crane ,
attached to
installation support
structure by trolley
and slid into position



RPC1 Prototype



Installed Borated
Poly & Lead Absorber
Prototypes

RPC1 Prototype
Support Structure

Installed Stainless
Absorbers



RPC1 Prototype

Remaining Shutdown Tasks

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Chiller cooling water	Done			Done
VTX	Assemble west 1/2 detector	Done			Done
VTX	Design survey theodolite support brackets for CM lead shield	Done			Done
VTX	Route fibers rack room to CME Rack	Done			Done
PHENIX	Bakeout/activate NEG for new BP	Done			Done
PHENIX	Leak check new BP	Done			Done
VTX	Test west 1/2 detector	Done			Done
VTX	Survey east barrels 1-4	Done			Done
PHENIX	Re-run MuTrigger fiber from MMS to rack room	Done			Done
VTX	Fabricate survey support brackets	Done			Done
VTX	Bring Support structure to Chem Lab - Done	Done			Done
VTX	Install survey support brackets	Done			Done

Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
RPC3S	Build TVB wall	Done			Done
VTX	Survey west 1/2 detector	Done			Done
VTX	Re-install bridge water manifold and cable trays	Done			Done
VTX	Chiller platform 480V power	Done			Done
VTX	Assemble east 1/2 detector	Done			Done
PHENIX	Re-install MuTr station 2 channel air distribution	Done			Done
VTX	Prepare thermocouple map	Done			Done
VTX	Test east 1/2 detector	Done			Done
VTX	Install NOVEC piping from chiller platform area to VTX area	Done			Done
VTX	Receive extension rails/design/modify for installation	Done			Done
VTX	Survey east 1/2 detector	Done			Done
PHENIX	Install access to inside MMS	Done			Done

TECHNICAL SUPPORT 20-0

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
VTX	Mate east and west 1/2 detectors	Done			Done
VTX	Survey/align east and west detector	Done			Done
VTX	Modify strongbacks for basket lift	Done			Done
VTX	Install extension rails	Done			Done
RPC3S	NRTL cable trays	Done			Done
VTX	Transport west 1/2 detector to IR	Done			Done
VTX	Install west 1/2 detector	Done			Done
VTX	Assemble and install NOVEC distribution manifolds near VTX	Done			Done
RPC3S	Re-install shielding	Done			Done
VTX	Install humidity sensors	Done			Done
PHENIX	Remove bakeout equipment	Done			Done
PHENIX	Survey and align MMS, CM and new BP	Done			Done

Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Annual PHENIX Safety Review	Done			Done
PHENIX	Install power upgrade to bridge	Done			Done
RPC3S	Finalize cable tray/Cable installation	Done			May need minor adjustments, etc
RPC3S	Final piping	Done			May need minor adjustments, etc
VTX	Install west 1/2 detector Bias, LV and signal cables	Done			Done
VTX	Install one Chiller for QA testing (on ground)	Done			Done
VTX	Connect west 1/2 detector to NOVEC cooling	Done			Done
VTX	Survey/align west 1/2 detector	Done			Done
VTX	Transport east 1/2 detector to IR	Done			Done
RPC1&Abs Proto	Installation plan	Done			Done
RPC1&Abs Proto	WP	Done			Done
PHENIX	Re-install BBCs cabling/cooling pipes	Done			Done
PHENIX	Re-install BBCs	Done			Done
PHENIX	AH South exit chiller platform installation	Done			Done
VTX	Install 3 chillers on chiller platform	Done			Done

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<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
VTX	Install east 1/2 detector	Done			Done
VTX	Route 100 LV cables from bridge rack to near VTX	Done			Done
VTX	Route 260 duplex/simplex fibers from CME rack to near VTX	Done			Done
VTX	Route 7 Belden 16 pair cable trunks from CME rack to near the VTX	Done			Done
PHENIX	Install East Vertical Lampshade on MMS	Done			Done
RPC3S	Thermostats	Done			Done
PHENIX	Gas mixing house R-134A shed addition R134A bottle warmers	Done			Done
PHENIX	MuTr and MuTrigger remaining subsystem tasks and tests	Done			May need a few more tests
VTX	Install interlock PLC on bridge	Done			Testing/ commissioning in progress
VTX	Route 100+ thermocouple extensions from PLC box to near VTX	Done			Done
VTX	In situ QA electronics test on east 1/2 detector	Done			Done
RPC3S	Re-install FCAL and any other disrupted subsystems	Done?			Done?
RPC1&Abs Proto	Installation fixtures design and fabrication	12/9/2010	3 days	PHENIX ME, Designer	In Progress

Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
VTX	Install east 1/2 detector Bias, LV and signal cables	12/9/2010	1 week	2 PHENIX techs	In Progress
PHENIX	Re-install MPCs	12/9/2010	1 week	2 PHENIX techs	In Progress
PHENIX	WP for DC repairs	12/10/2010	2 days	ME	As convenient
VTX	Survey/align east 1/2 detector	12/13/2010	1 day	PHENIX tech, designer, 2 surveyors	after installation
VTX	Connect east 1/2 detector to NOVEC cooling	12/13/2010	2 days	2 PHENIX techs	In Progress
VTX	Final VTX survey	12/13/2010	1 day	1 PHENIX tech, designer, 2 surveyors	After east QA
VTX	Final BP survey	12/13/2010	1 day	1 PHENIX tech, designer, 2 surveyors	After east QA
RPC1&Abs Proto	Installation	12/13/2010	3 days	3 PHENIX techs	If Time Permits
PHENIX	Prep EC for move to IR	12/14/2010	1 day	3 PHENIX techs	After BBCs & MPCs & VTX
PHENIX	Move MuID collars to IR	12/14/2010	1 day	3 PHENIX techs	After BBCsMPCs
PHENIX	Re-attach cables, gas piping, water piping and fibers to CM and MMS	12/14/2010	2 weeks	3 PHENIX techs	In Progress
PHENIX	Remove manlifts, decking and 12 ton crane from IR to run storage	12/14/2010	1 day	3 PHENIX techs	After BBCs & MPCs & VTX installed
PHENIX	Move EC to IR	12/15/2010	1 day	3 PHENIX techs	After Prep

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Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Close access to MMN	12/15/2010	1 day	1 PHENIX tech	> MuTr/ Trig < flam gas
RPC3S	RPC gas controllers final installation and RPC subsystem commissioning	12/15/2010	1 week	1 PHENIX tech, RPC Group	As soon as convenient
PHENIX	Wire dumb waiter	12/17/2010	1 day	Electrician	After dumb waiter installed
PHENIX	Fold down EC platforms and install dumb waiter	12/16/2010	1 day	2 carpenters, 2 riggers	After EC in IR
PHENIX	Re-install EC cables, fibers, water and gas piping	12/17/2010	4 days	3 PHENIX techs, 2 scientists, 1 electrician	After EC in IR
PHENIX	Install MuID collars	12/28/2010	1 day	3 PHENIX techs	After EC in IR
PHENIX	DC repairs	12/23/2010	3 days	1 PHENIX tech, PHENIX scientists A/R	After EC cables, etc. installed
PHENIX	Pink sheets, blue sheets, white sheets	12/23/2010	2 weeks	2 PHENIX techs, PHENIX scientists A/R	After DC Repairs
PHENIX	Chiller platform fire detection and suppression	12/23/2010	1 week	1 CAD plumbers, 1 electrician	ASAP after platform is installed

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Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
PHENIX	Assemble shield wall	12/24/2010	4 days	1 rigging crew	After EC rolled in
PHENIX	Start flammable gas	12/27/2010	1 day	1 PHENIX tech	After shield wall in place
FoCal Proto	Design plan	12/30/2010	2 weeks	PHENIX ME	In Progress
FoCal Proto	Installation plan	12/30/2010	2 weeks	PHENIX ME	In Progress
PHENIX	Install plug door	12/30/2010	1 day	1 rigging crew	After shield wall built
PHENIX	Close shield wall	12/30/2010	1 day	3 PHENIX techs	After pink/blue/white sheets
PHENIX	Install safety interlocks	12/30/2010	1 day	CAD safety	After shield wall closed
PHENIX	Close out all 2010 shutdown WP's	12/31/2010	1 day	1 PHENIX ME	After shutdown completed
RPC1&Abs Proto	Electronics & Gas Support Installation	12/31/2011	3 days	3 PHENIX techs	If Time Permits
PHENIX	End of shutdown party	1/7/2011	1 day	All of PHENIX	After shutdown completed

Remaining Shutdown Tasks, Continued

TECHNICAL SUPPORT 2010

<u>Project</u>	<u>Task</u>	<u>Completion Date</u>	<u>Task Duration</u>	<u>Personnel reqmts</u>	<u>Notes</u>
FoCal Proto	ESRC review	>1/1/2011???	2 weeks	PHENIX ME	Not Scheduled
FoCal Proto	Support structure design	>1/1/2011???	3 days	PHENIX ME, Designer	In progress
FoCal Proto	Support structure fabrication	>1/1/2011???	2 weeks	2 PHENIX techs, CS	After Design is complete
FoCal Proto	Electronics, cooling, gas support design	>1/1/2011???	3 days	PHENIX ME, Designer	In progress
FoCal Proto	Electronics, cooling, gas support fabrication	>1/1/2011???	1 week	2 phenix TECHS	In progress
FoCal Proto	Electronics, cooling, gas support installation	>1/1/2011???	3 DAYS	3 phenix TECHS	During run 11
FoCal Proto	Support structure installation	>1/1/2011???	2 DAYS	3 phenix TECHS	During run 11
PHENIX	Design CM alignment stops	postponed			For 2011 shutdown
PHENIX	Fabricate CM alignment stops	postponed			For 2011 shutdown

2010 Building Maintenance Issues

- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall and over door between control room and elect. ass'y room.
- General maintenance for Trailer Offices (in progress)
- Roof leaks in laser room and IR (southeast corner)
- Flooding in AH/ Driveway heaving [Lake PHENIX]
- New HVAC in Control Room and Conference Room
- New projector for conference room



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PHENIX Procedure Review Current Status:

148 Procedures Identified

- 85 Made Inactive (not currently in use, will require revision to re- activate if and when necessary, available for reference purposes)
- 9 CAD procedures relevant to PHENIX, all are available and available on the CAD web site
- 42 Procedures (1 of these soon needs updating)
- 11 Proposed/Draft Procedures (never previously formalized) (3 are ready for review)

Nothing New This Week

Web retrieval of latest procedures now available from PHENIX Internal:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm

1. Annual PHENIX Safety review: no significant problems, waiting for minutes/action items
2. RPC1 Prototype & Borated Poly/Lead Absorber Review
WP approved by CA Safety
3. Focal Prototype Review: Not enough info yet.
Design and technical support are ongoing
4. BNL Standards for Ethics - Required Training
Due by 12/31
5. From Mike Zarcone : *Ensure your vehicle registration is current, and insure that you have a current BNL sticker displayed.*
6. From Ray Karol: *Please assign staff to walk down your spaces to remove any transient combustibles. This applies to all buildings and all rooms. One of the issues from the recent relay fire in B911 was that we found transient combustible materials in the area. Removing unneeded combustible materials will reduce the chances of worsening the consequences of a fire.*

Where To Find PHENIX Engineering Info



It's beginning to look a lot like Christmas.



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

